	Application No.	Applicant(s)	
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Notice of Allowability	09/770,400 Examiner	SASAKI ET AL.	
Notice of Anomability	Examiner	Art Unit	
	Sheeba Ahmed	1773	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	n this application. If not included unication will be mailed in due co	d ourse. THIS
1. This communication is responsive to 4/22/04.			
2. X The allowed claim(s) is/are 1, 2, 4-11, 13, and 17-20 (now	<u>re-numbered 1-15)</u> .		
3. \boxtimes The drawings filed on <u>29 January 2001</u> are accepted by th	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Application	n No	on from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requ	irements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ack) of
7. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT			te the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inf	ormal Patent Application (PTO-	152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./№ 8), 7. ☐ Examiner's /	Mail Date Amendment/Comment	
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's \$	Statement of Reasons for Allowa	ance
of Biological Material	9. 🗌 Other	<u>.</u>	

Application/Control Number: 09/770,400

Art Unit: 1773

REASONS FOR ALLOWANCE

1. Claims 1, 2, 4, 6-8, and 17-20 are directed to an allowable product. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 5, 9-11, and 13, directed to the process of making the patentable product, previously withdrawn from consideration as a result of a restriction requirement, are now subject to being rejoined. Claims 5, 9-11, and 13 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in the Office action mailed on August 26, 2002 is hereby withdrawn.

2. Claims 1, 2, 4-11, 13, and 17-20 are allowed.

The following is an examiner's statement of reasons for allowance:

Independent claim 1 is directed to an ultrathin film comprising layers consisting essentially of polymer layers and layers of lamina particles alternately assembled, wherein the lamina particles are exfoliated microcrystals of a layered titanium oxide wherein the thickness of each layer is within a range of sub-nm to nm.

The closest prior art, US Patent 5,935,717, fails to disclose or render obvious a an ultrathin film comprising layers of lamina particles alternately assembled with polymer layers, wherein the lamina particles are exfoliated microcrystals of layered titanium oxide particles.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheeba Ahmed whose telephone number is (571) 272-1504. The examiner can normally be reached on Monday-Friday from 9am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau can be reached on (571)272-1516. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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June 13, 2004